I. Allgemeines.

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II. Anatomie.

Cf. **XVIII. Kunz.**

Beijerinck, M. W., 1912. De bouw der zetmeelkorrel. (Verlag kon. Ak. Wet. Amsterdam. 30 Maart 1912. p. 1252—1256. 1 fig.)

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III. Biologie.

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Soldani, G. 1911. Fine della polemica sugli ibridi da innesto. (Bull. Soc. tosc. Ort. XXXVI. p. 325—328.)

VI. Physiologie.

Cf. **V. Daniel.**

Acqua, C. 1911. Sul valore dell'apice radicale quale centro per la geopercezione. (Ann. di Bot. IX. p. 393—444. fig. 2 tav.)
André, G. 1912. Déplacement par l'eau des substances nutritives contenues dans les graines. (C. R. Ac. Sc. Paris. CLIV. p. 1103—1105.)
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ferriferi, con speciale riguardo alla Vite ed alla clorosi di essa. (Ann. Staz. chim.-agr. sper., Roma. 2. IV. p. 129—142.)

Fabre, G. 1910. Altérations organiques et fonctionnelles des organismes végétaux sous l'influence du radium. (C. R. Soc. Biol. Paris. LXIX. p. 523.)

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Scurti, F. e **G. Tommasi. 1911.** Sulla formazione del grasso nei frutti oleaginosi. Ricerche sperimentali eseguite sull'Olivo. (Ann. Staz. chim.-agr. sper., Roma. 2. IV, p. 253—286.)

VII. Palaeontologie.

Arber, E. A. N. 1912. Fossil flora of Ingleton Coalfield. (Geol. Mag. 1912. p. 80—82.)

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Coulter, J. M. 1912. The relations of paleobotany to botany. (Amer. Nat. XLVI. p. 215—225.)

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VIII. Microscopie.

IX. Cryptogamen im Allgemeinen.

(Vacant.)

X. Algae.

Entz Jr., G. 1910. Ueber ein Süsswasser-Gymnodinium. (Állattani Közl. IX. p. 157—163. 1 Taf. u. Fig. Mag. u. deutsch.)

Famincyn. 1911. Sur les Bryopsis de la côte de Monaco. (Bull. Inst. Océanogr. 1911. 3 pp.)

Jacobsen, H. C. 1912. Die Kulturbedingungen von Haematococcus fluvialis. (Fol. microbiol. Delft. I. 35 pp. 1 pl.)

XI. Eumycetes.

Arthur, J. C. 1909. North American rose rusts. (Torreya. IX. p. 21—28.)

Banker, H. J. 1909. A new fungus of the Swamp Cedar. (Bull. Torrey bot. Club. XXXVI. p. 341—343.) [Notes concerning and a description of the new species Steccherinum Ballouii. The gross morphology of the new fungus is shown in a full page halftone. — R. J. Pool.]

Bertrand, J. et **M. Javillier. 1912.** Action du manganèse sur le développement de l'Aspergillus niger. (Ann. Inst. Pasteur. XXVI. p. 241—249.)

Bethel, E. 1911. Notes on some species of Gymnosporangium in Colorado. (Mycologia. III. p. 156—160.)

Böeseken, J. en **H. Waterman. 1912.** Werking van in water gemakkelijk, in olie niet oplosbare stoffen op den groei van den Penicillium glaucum. I. (Versl. kon. Ak. Wet. Amsterdam. 30 Maart 1912. p. 1246—1251.)

Buchanan, R. E. 1911. A new species of Thyrococcum. (Mycologia. III. p. 1—3). [Notes are here given of the relation of Epicoccum and Thyrococcum, and the description of T. humicola sp. nov. — R. J. Pool.]

Buchanan, R. E. 1911. Morphology of the genus Cephalosporium. (Mycologia. III. p. 170—174.) [The general characterization of the genus is followed by the description of C. Pammelii sp. nov., with the variety purpurascens. The fungus is pictured in two microphotographs and a plate of seven figures showing spores and sporophores. — R. J. Pool.]

Cejka, B. 1912. Ueber eine in den Haaren des Menschen parasitisch lebende Hefeart. (Sitzber. Ges. Wiss. Prag. 1912. 16 pp. 1 T.)

Clark, E. D. and **J. L. Kantor. 1911.** Toxicological experiments with some of the higher Fungi. (Mycologia. III. p. 175—188.) [A report of experiments with extracts from such Agarica as Amanita muscaria, Inocybe infida, and Clitocybe multiceps. Material was extracted from Inocybe with exerts toxic affects upon frogs which were quite different from the affects produced by the use of the extract from Amanita. — R. J. Pool.]

Coker, W. C. and **L. Wilson. 1911.** Schizosaccharomyces octoporus. (Mycologia III. p. 283—287). [A description and 28 figures of this odd form.]

Dearness, J. 1911. The personal factor in the Mushroom Poisoning. (Mycologia. III. p. 75—78.) [The writer comments upon the various and varied idiosyncrasies of the mushroom eater and upon the

possibility of the development of a number of toxic substances in forms that are usually regarded as „quite edible". — R. J. Pool.]

Fraser, W. P. 1911. Cultures of some heteroecious Rusts. (Mycologia. III. p. 67—74.) [A study of some of the heteroecious rusts of Nova Scotia including inoculations and successful infections among the Peridermiums and others. — R. J. Pool.]

Groh, H. 1911. A new host for Claviceps. (Mycologia. III. p. 37—39.) [The writer here reports the discovery of what he thinks are the sclerotia of Claviceps on Carex stellulata angustata. The paper is accompanied by one figure. — R. J. Pool.]

Gruenberg, B. C. 1909. Some aspects of the mycorhiza problem. (Bull. Torrrey bot. Club. XXXVI. p. 165—169.) [Some of the problems open for solution in this field are here briefly indicated. — R. J. Pool.]

Hagem, O. 1910. Einige Beobachtungen über die Verbreitung der Actinomyceten in der Natur. (Vid.-Selsk. Christiania. 1910. 9 pp.)

Harter, L. L. 1911. A new species of Alternaria. (Mycologia. III. p. 154—155.) [Alternaria forsythiae is here described from the living leaves of Forsythia suspensa Thunb. The material was found on the government grounds, District of Columbia. — R. J. Pool.]

Heald, F. D. and **F. A. Wolf. 1911.** New species of Texas Fungi. (Mycologia. III. p. 5—22.)

Kern, F. D. 1911. The Rusts of Guatemala. II. (Mycologia. III. p. 288—290.) [Mentions a number of species of this group of fungi collected in Guatemala, and describes the new species Uromyces Gouaniae found on Gouania domingensis. — R. J. Pool.]

Krieger, L. C. C. 1911. Note on the reported poisonous properties of Coprinus comatus. (Mycologia. III. p. 200—202.)

Mattirolo, O. 1911. I funghi ipogei della Liguria. (Genova, Tip. Ciminago. 1911. 8°. 10 pp.)

Murrill, W. A. 1911. Illustrations of Fungi. VIII. (Mycologia. III. p. 97—105.)

Murrill, W. A. 1911. Illustrations of Fungi. IX. (Mycologia. III. p. 165—169.) [Seven species of Agarica are here represented in a colored plate and specific descriptions given as in the preceding series. Hebeloma precox is a new species noted. — R. J. Pool.]

Murrill, W. A. 1911. The Agaricaceae of tropical North America. I—IV. (Mycologia. III. p. 23—36, 79—91, 189—199, 271—282.)

Paoli, G. 1911. Nuovi Laboulbeniomiceti parassiti di Acari. (Redia. VII. p. 283—295. 1 tav.)

Peck, C. H. 1909. New species of Fungi. (Bull. Torrey bot. Club. XXXVI. p. 153—157, 329—339.)

Peglion, V. 1911. Le tartufaie del Ferrarese. (Ann. Soc. agr. Prov. Bologna. 1911. 23 pp.)

Ravenna, C. e **G. Pighini. 1911.** Sul metabolismo delle muffe. Ricerche sull'Aspergillus fumigatus. (Gazz. chim. ital. XLI. p. 109—114.)

Seaver, F. G. 1909. Notes on North American Hypocreales. II. Nectria peziza. (Bull. Torrey bot. Club. XXXVI. p. 201—204.) [A brief paper accompanied by one plate with five figures. — R. J. Pool.]

Seaver, F. J. 1911. Studies in Colorado Fungi. I. Discomycetes. (Mycologia. III. p. 57—66.)

Seaver, F. J. 1911. The Hypocreales of North America. IV. (Mycologia. III. p. 207—230.)

Seaver, F. J. and **E. D. Clark. 1910.** Studies in pyrophilous Fungi. II. (Mycologia. II. p. 109—123.)

Shear, C. L. 1909. The present treatment of monotypic Fungi. Bull. Torrey bot. Club. XXXVI. p. 147—151.) [A few arguments are here given why some plan of permanently fixing generic names to some particular species should be adopted. It is thought that some degree of stability or uniformity can be obtained in the use of names by this or some similar means. — R. J. Pool.]

Sheldon, J. L. 1909. Notes on Uromyces. (Torreya. IX. p. 54—56.) [A report of further work on a Uromyces found on Sisyrinchium graminoides, and a hint as to the possible relationship between Uromyces andropogonis and Puccinia violae. — R. J. Pool.]

Stone, R. E. 1909. A new species of Puccinia. (Bull. Torrey bot. Club. XXXVI. p. 549—552.) [A description of Puccinia angustatoides sp. nov. found in the uredinial and telial stages on Rhyncospora corniculata from Alabama. The species is illustrated by four figures in the text. — R. J. Pool.]

Stone, R. E. 1909. Species of Gymnosporangium in southern Alabama. (Torrey. IX. p. 114—117.) [Some species of this rust genus are here reported from a region from which they had not yet been obtained and a list of the species now known for the state of Alabama is included. — R. J. Pool.]

Sumstine, R. D. 1909. Some Moulds from Pennsylvania. (Torreya. IX. p. 143—145.) [An enumeration of fourteen species of black moulds from the state of Pennsylvania. — R. J. Pool.]

Sumstine, D. R. 1911. Studies in North American Hyphomycetes. I. (Mycologia. III. p. 45—56.)

XII. Myxomycetes.

Forti, A. 1911. Diagnoses Myxophycearum novarum. (Atti Acc. Agric. Verona. 4. XII. 5 pp. 1 t.)

Macbride, T. H. 1911. A new species of Myxomycetes? (Mycologia. III. p. 39—41.) [The author proposes the following new genus and species for a slime mould found on a decaying pine log in the Yosemite valley: Schenella simplex. A plate with seven figures illustrates the habit and the structure of the organism. — R. J. Pool.]

XIII. Pflanzenkrankheiten.

Cf. **XIV. Dale; XX. Bulletin.**

Averna-Saccà, R. 1911. Contributo allo studio del „roncet". (Atti Ist. Incoragg. Napoli. 6. LXII. p. 113—144.)

Averna-Saccà, R. 1911. L'acidità dei succhi nelle Viti americane in rapporto alla resistenza di esse alla fillossera, secondo Comes. (Atti Ist. Incoragg. Napoli. 6. LXII. p. 151—196.)

Bateson, E. 1911. Loranthus as a parasite on Hevea brasiliensis. (Agr. Bull. Straits and F. M. S. X. p. 360 361.)

Bessey, E. A. 1911. Root-knot (caused by Heterodera radicola) and its Control. (Bull. Dep. Agr. Washington. 1911. 89 pp. 3 pl. 3 fig.)

Briosi, G. 1911. Rassegna crittogamica per l'anno 1910, con notizie sulle malattie dei lupini, della lupinella, della sulla e dei pioppi, causate da parassiti vegetali. (Boll. Min. Agr. Ind. e Comm. X. 12 pp.)

Buscalioni, L. e **G. Muscatello. 1911.** Contribuzione allo studio delle lesioni fogliari. [fine]. (Malpighia. XXIV. p. 97—152.)

Davis, A. R. 1912. The Hendersonia disease of Eucalyptus glo-

bulus. (Pomona Coll. Journ. econ. Bot. II. p. 249—251. 2 fig.)

Fawcett, H. S. and **O. F. Burger. 1911.** A Gum-inducing Diplodia of Peach and Orange. (Mycologia. III. p. 151—153.) [A preliminary paper announcing the appearance of a Diplodia on the peach and orange in Florida that produces a fruit-rot and induces gum flow. — R. J. Pool.]

Fuschini, C. 1911. Contro i danni delle Agrotidi nell'Umbria. (Perugia, tip. perugina, 1911.)

Fuschini, C. 1911. Di due coleotteri dannosi l'uno alla medica, l'altro al trifoglio. (Conegliano, Stab. arti grafiche. 1911.)

Gabotto, L. 1911. Rassegna del gabinetto di Patologia vegetale di Casalmonferrato, per l'anno 1909—1910. (Casalmonferrato, 1911. 8°. 35 pp. ill.)

Giampietro, A. W. 1911. Un marciume delle cipolle dovuto ad un bacterio: Bacillus coli. [N. P.]. (Riv. Patol. veg. V. p. 49—52.)

Green, E. E. 1911. The rubber slug. (Circ. and agr. Journ. r. bot. Gard. Ceylon. V. p. 337—343.)

Guercio, G. del 1911. Intorno ad alcune cause nemiche del Fleotripide dell'Olivo. (Redia. VII. p. 65—70. ill.)

Guercio, G. del 1911. Mezzi chimici e mezzi meccanici per ostacolare la diffusione del Fleotripide dell'Olivo. (Redia. VII. p. 204—214.)

Guercio, G. del 1911. Prima contribuzione alla conoscenza degli eriofiidi delle gemme del Nocciolo e delle foglie del Pero, e le esperienze tentate per combatterli. (Redia. VII. p. 1—64. ill.)

Honing, J. A. 1911. De oorzaak der slijmziekte en proeven ter bestrijding. III. (Med. Deli Proefstat. Medan. V. p. 343—364.)

Kusano, S. 1911. On the Chloranthy of Prunus Mume, caused by Caeoma Makinoi. (Journ. Coll. Agr. Tokyo. 1911. 4°. 40 pp. 2 pl. (1 col.). 3 fig.)

Magnus, P. 1910. Zum Auftreten des Eichenmehltau's. (Bull. Soc. luxembourg. N. S. IV. p. 108—111.)

Massalongo, C. 1911. Zoocecidii e fitocecidii rari o nuovi. (Marcellia. X. p. 94—99. ill.)

Pantanelli, E. 1911. Danni di Thrips sulle Viti americane. (Staz. Sper. agr. ital. XLIV. p. 469—514. 1 t.)

Pantanelli, E. 1911. L'acariosi della Vite. (Marcellia. X. p. 133—150. ill.)

Paris, G. e **A. Trotter. 1911.** Sui composti azotati nelle galle di Neuroterus baccarum. (Marcellia. X. p. 150—159.)

Pavarino, G. L. 1911. Un cancro della Glicine: Bacterium Montemartini n. sp. (Riv. Patol. veg. V. p. 65—68. 1 t.)

Piacentini, T. 1911. La lotta contro il Cycloconium oleaginum. (Poggio Mirteto, Soc. tip. Sabina. 1911.)

Ridley, H. N. 1911. A new pepper disease [Colletotrichum necator Massee]. (Agr. Bull. Straits and F. M. S. X. p. 320—321.)

Rossi, G., G. Naso e **B. Maimone. 1911.** Sulla etiologia della gommosi degli alberi da frutta. (Ann. Scuola sup. Agr. Portici. X. 98 pp. 1 t.)

Tropea, C. 1911. Appunti di Patologia vegetale. (Boll. Orto bot. e Giard. col. Palermo. IX. p. 194—197.)

XIV. Bacteriologie.

Aumann. 1912. Ueber den Wert der direkten Zählung der Wasserbakterien mittels des Ultramikroskops. (Cbl. Bakt. 2. XXXIII. p. 624—635. 2 Fig.)

Beijerinck, M. W. 1912. Mutation bei Mikroben. (Fol. microbiol. Delft. I. 97 pp. 4 pl.)

Dale, E. 1912. A bacterial disease of potato leaves. (Ann. of Bot. XXVI. p. 133—154. 2 pl.)
Duclaux, J. et **A. Hamelin. 1911.** Observations sur l'emploi des filtres de collodion. (Ann. Inst. Pasteur. XXV. p. 145.)
Gorini, C. 1911. Affinità di origine e di prevenzione di alcune malattie del formaggio Gorgonzola e dei prosciutti. (Rend. Istit. Lomb. 2. XLIV. p. 568—570.)

XV. Lichenes.

Cabanès, G. 1912. Lichens foliacés observés dans le Gard. (Bull. Soc. Et. Sc. nat. Nimes. XXXVIII. p. 1—26.)
Fink, Bruce 1911. The nature and classification of Lichens. I. (Mycologia. III. p. 231—269.)
Harmand, J. 1911. Lichenes Gallici rariores exsiccati. Fasc. III. N° 101—150 et 150 bis. (Docellis Vogesorum. 1911. 4°.)
Howe Jr., R. H. 1911. American species of Alectoria occurring north of the fifteenth parallel. (Mycologia. III. p. 106—150.)

XVI. Bryophyten.

Gola, G. 1911. Contributo alla conoscenza delle Epatiche delle isole Canarie. (Atti Acc. Sc. Torino. XLVI. p. 716—720.)
Grebe, K. 1912. Beobachtungen über die Schutzvorrichtungen xerophiler Laubmoose gegen Trocknis. (Hedwigia. LII. p. 1—20.)
Kaalaas, B. 1911. Untersuchungen über die Bryophyten in Romsdals Amt. (Vid. Selsk. Skrift. Trondhjem. 1911. 8°. 91 pp. 3 Fig.)

XVII. Pteridophyten.

Cf. **XVIII. Johnson** and **Knowles.**

Fomin, A. 1911. Uebersicht der Arten der Gattung Cystopteris im Kaukasus. (Moniteur Jard. bot. Tiflis. 1911. p. 3—19.)
Fomin, A. 1911. Ueber zwei neue Farne aus dem Kaukasus. (Moniteur Jard. bot. Tiflis. 1911. p. 20—23. 1 T.)

XVIII. Floristik, Geographie und Systematik der Phanerogamen.

Cf. **VII. Averna-Saccà.**

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XIX. Pflanzenchemie.

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XX. Angewandte Botanik (technische, pharmaceutische, landwirtschaftliche, gärtnerische) und Forstbotanik.

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